MATHEMATICS

Students interested in specializing in mathematics and intending to do either graduate work in Mathematics or work in business or industry will be interested in this degree. The Department of Mathematics and Statistical Sciences Degree Program prepares students for employment in the private or public sector, graduate school, and scientific research. Studying mathematics naturally develops quantitative thinking and analytical problem solving, talents with universal application. Demand will always be high for individuals with these universal talents to solve society's diverse and complex problems.

Seven concentrations and a No Concentration Option are available for a Bachelor of Arts and a Bachelor of Science.

Other Information

All coursework taken for the Mathematics major or minor must be completed with a grade of C- or better.

At least one MATH or STAT course at the 3000 level or higher (excluding STAT 3000) must be taken at UNO to establish residency for the Mathematics major or minor.

Double Majors

If planned correctly, some disciplines, such as computer science and math 6-12 teaching endorsement, require few to no additional math courses beyond what is required for the major. Talk to your advisor about double majoring with Mathematics to expand your educational opportunities!

Student Groups

Math Club
Pi Mu Epsilon National Mathematics Honorary Society
Putnam Competition

Fast Track Program

Other Program Related Information

Fast Track Program

The Department of Mathematics and Statistical Sciences has developed a Fast Track program for highly qualified and motivated students providing the opportunity to complete a bachelor's degree and a master's degree in an accelerated time frame. With Fast Track, students may count up to 9 graduate hours toward the completion of their undergraduate program as well as the graduate degree program.

Program Specifics:

- This program is available for undergraduate students pursuing a BA/BS in Mathematics or pursuing a double-major with BA/BS in Mathematics as the primary or secondary major desiring to pursue a MA/MS/MAT in Mathematics.
- Students must have completed no less than 60 undergraduate hours
- Students must have a minimum undergraduate GPA of 3.0.
- Students must complete the Fast Track Approval form, obtain all signatures, and submit to the Office of Graduate Studies prior to first enrollment in a graduate course.
- Students will work with their undergraduate advisor to register for the graduate courses.
- A minimum cumulative GPA of 3.0 is required for graduate coursework to remain in good academic standing.
- Students remain undergraduates until they meet all the requirements for the undergraduate degree and are eligible for all rights and privileges granted undergraduate status including financial aid.
- Near the end of the undergraduate program, formal application to the graduate program is required. The application fee will be waived, the applicant will need to contact the Office of Graduate Studies for a fee waiver code.
  - Admission to Fast Track does NOT guarantee admission to the graduate program.
  - The admit term must be after the completion term of the undergraduate degree.

Contact

mathugradadvising@unomaha.edu
204 DSC
402.554.3841

Website (http://www.unomaha.edu/college-of-arts-and-sciences/mathematics/)

Bachelor of Arts and Bachelor of Science in Mathematics

The B.A. and B.S. Degrees with a major in Mathematics consists of 46 credits of required courses in Mathematics. Approved Statistics courses may also be included. Either degree option has eight possible concentrations and a No Concentration Option. The concentrations are defined by the required upper division courses.

Degrees Offered

- Mathematics, Bachelor of Arts (http://catalog.unomaha.edu/undergraduate/college-arts-sciences/mathematics/mathematics-ba/)
- Mathematics, Bachelor of Science (http://catalog.unomaha.edu/undergraduate/college-arts-sciences/mathematics/mathematics-bs/)

The Bachelor of Arts Degree requires a world language through the intermediate level (16 credits).

The Bachelor of Science Degree requires at least 15 hours of related Cognate coursework that must be approved by the Math Academic Advisor/Coordinator. Students can also choose a UNO Minor to satisfy their Cognate requirement; however, this Cognate minor cannot double-count as the Option 1 minor for the College of Arts & Sciences College Breadth Requirement. A Computer Science Minor cannot satisfy the Cognate requirement for Mathematics. No more than 6 credits of Cognate coursework may double-count within the general education requirements.

Minors Offered

- Mathematics Minor (http://catalog.unomaha.edu/undergraduate/college-arts-sciences/mathematics/math-minor/)

The Department Mathematics and Statistical Sciences Degree Program prepares students for employment in the private or public sector, graduate school, and scientific research. Studying Mathematics naturally develops quantitative thinking and analytic problem solving, skills with universal application. Mathematics majors learn to make critical observations, organize, analyze, and interpret data, and extract information and patterns. Demand will always be high for individuals with these universal skills to solve society's diverse and complex problems.

Mathematics majors often pursue careers as a:

- Cryptanalyst – developing encryption for cyber security for the Defense Department.
- Data scientist – analyzing data to make predictive decisions for a retailer.
- Operations research analyst – optimally determining which aircraft an airline should purchase.

- Teacher – teaching Math at the 7-12 level.
- Actuary – evaluating risk and helping companies make decisions.

When the Mathematics major is matched with complementary minors and thoughtful internships, new possibilities arise. A few examples are:

- Math + Biology = Biomathematician: modeling biological processes for a Biotech company.
- Math + Graphic Design = Animator: making realistic graphics for a movie.
- Math + Forensics = Forensics Analyst: solve crimes for the FBI.
- Math + Geology = Hydrologist: solving problems related to water quantity, quality, and availability for the U.S. Geological Survey.
- Math + English = Technical writer: writing documents for industries that need writers fluent with numbers and calculations.